

zenon® from COPA-DATA is an industrial control software platform that combines HMI, SCADA, dynamic production reporting, and a soft PLC. The premier solution for energy and infrastructure industry, zenon Energy Edition allows for the automation and control of power generation, transmission, and distribution. Backed by in-house drivers, zenon has the ability to support all major industry protocols such as DNP3, Modbus, IEC 61850, and IEC 60870.

Features

- Automatic line coloring
 - Command processing
 - Master and Slave for Modbus, DNP3, IEC 61850
 - Load Flow
 - Soft PLC - IEC 61131-3
 - Simulation
 - Hierarchical project structure supported
 - Smart objects
 - Circular redundancy
 - Interlocking
 - GIS
 - Message control
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Automatic line coloring (in single line diagrams)

Automatically change line colors based on input from machines and set parameters

Command processing

Used to configure, test and execute command sequences, consisting of a graphics editor, where steps of a command sequence can be arranged consecutively with feedback from the PLC

Master and Slave for Modbus, DNP3, IEC 61850

In house drivers allow for support of major communication protocols in the industry

Load Flow - Calculation and State Estimator

Load flow calculation can monitor a network and flag critical situations. State estimator provides information about network segments not measured

Simulation

Simulation mode allows you to run and execute a project in a simulation environment

Soft PLC - IEC 61131-3

Embedded PLC in the zenon runtime

Hierarchical project structure supported

Supports integration projects including a global project and child projects

Smart objects - object oriented engineering

Fully functional reusable projects created in zenon that can be remapped and imported into other projects

Interlocking

Configure dependencies to control access to certain objects in the runtime

GIS

Supports geographic information systems to collect, store, manage, analyze and present data that can be shown on a map

Message control - Phone, Email, SMS (2 way)

Messages and alarms can be sent out-bound via email, phone or SMS. Users can acknowledge and respond, triggering the next action

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